

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	0	"535016".pn.	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 12:16	
2	BRS	L2	1	"5351016".pn.	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 14:42	
3	BRS	L3	86925 9	2 (double or sideband or side adj1 band\$6)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 12:21	
4	BRS	L4	1	2 and (double or sideband or side adj1 band\$6)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 12:23	

	Error Definition	Err ors
1		
2		
3		
4		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
5	BRS	L5	309	(phaser\$1 or splitter\$1 or phase near2 split\$4 or splitt\$3 near2 network\$3 or split\$4 near2 filter\$3 or phasor\$1 or first adj2 shift\$4 with second adj2 shift\$4 or first adj2 split\$4 with second adj2 split\$4) same (single adj2 sideband\$1 or mono adj2 sideband\$6 or single adj2 side adj1 band\$6 or balanc\$6 near3 modulat\$4 or imbalanc\$6 near3 modulat\$4 or unbalanc\$6 near3 modulat\$4 or SSM or SSB)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 12:52	
6	BRS	L6	19918 1	(add\$3 or sum\$4 or subtract\$4 or combin\$6) near3 (mix\$3 or modulat\$4)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 12:32	
7	BRS	L7	195	5 and 6	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 12:32	
8	BRS	L8	22	("6029059").URPN.	USPAT	2005/08/1 1 12:36	
9	BRS	L9	6	("4313089" "5448772" "5630228" "5642071" "5805988" "5809410").PN.	US- PGPUB ; USPAT ; USOCR	2005/08/1 1 12:36	

	Error Definition	Errors
5		
6		
7		
8		
9		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
10	BRS	L10	3	(phaser\$1 or splitter\$1 or phase near2 split\$4 or split\$3 near2 network\$3 or split\$4 near2 filter\$3 or phasor\$1 or first adj2 shift\$4 with second adj2 shift\$4 or first adj2 split\$4 with second adj2 split\$4) same (single adj2 balanc\$3 near3 mix\$4 or imbalanc\$3 near3 mix\$4)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 13:13	
11	BRS	L11	62	7 and (CDMA or spread\$3 adj2 spectrum or Spread\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 13:30	
12	BRS	L12	1	"3825834".pn.	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 13:30	
13	BRS	L20	1	"4494238".pn. and (i or Q or "in-phase" or quadrature or complex or real or imaginari\$3 or QAM or QPSK)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 14:53	
14	BRS	L21	1	"4494238".pn. and ("722" or "712")	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 14:29	

	Error Definition	Err ors
10		
11		
12		
13		
14		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
15	BRS	L22	0	"4494238".pn. and (encod\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 14:30	
16	BRS	L23	1	"4494238".pn. and (cod\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 14:31	
17	BRS	L24	1	"4494238".pn. and (cod\$3 with shift\$4)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 15:39	
18	BRS	L25	1	"4494238".pn. and (LPF or BPF or low adj1 pass or bandpass or band adj1 pass or lowpass)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 14:36	
19	BRS	L26	1	"5351016".pn. and (encod\$6)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 14:43	
20	BRS	L27	0	"4494238".pn. and (reson\$6 or helic\$6)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 14:53	

	Error Definition	Err ors
15		
16		
17		
18		
19		
20		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
21	BRS	L28	12	("5602833".pn. or "5649000".pn. or "5960040".pn. or "6633616".pn. or "6704555".pn. or "20040013209" or "6520448".pn. or "6134215".pn. or "6088402".pn. or "6327534".pn. or "6728301".pn. or "20030086481")	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 15:48	
22	BRS	L29	0	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) with (pilot\$1 or nonpilot\$1) same (carrier near3 track\$3 or carrier\$1 near3 recover\$4 or phase near2 track\$4 or carrier\$1 near3 reproduc\$6 or timing near3 recover\$4 or frequenc\$3 near2 discriminat\$4 or error\$1 near3 estimat\$4 or frequenc\$3 near2 error\$1 or loopfilter\$3 or loop adj1 filter\$3 or feedback near3 loop\$1 or feedback near3 filter\$3) and 28	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 15:53	

	Error Definition	Errors
21		
22		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
23	BRS	L30	0	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same (pilot\$1 or nonpilot\$1) same (carrier near3 track\$3 or carrier\$1 near3 recover\$4 or phase near2 track\$4 or carrier\$1 near3 reproduc\$6 or timing near3 recover\$4 or frequenc\$3 near2 discriminat\$4 or error\$1 near3 estimat\$4 or frequenc\$3 near2 error\$1 or loopfilter\$3 or loop adj1 filter\$3 or feedback near3 loop\$1 or feedback near3 filter\$3) and 28	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 15:53	
24	BRS	L32	0	31 and 28	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 15:53	

	Error Definition	Err ors
23		
24		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
25	BRS	L31	19	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same (pilot\$1 or nonpilot\$1) same (carrier near3 track\$3 or carrier\$1 near3 recover\$4 or phase near2 track\$4 or carrier\$1 near3 reproduc\$6 or timing near3 recover\$4 or frequenc\$3 near2 discriminat\$4 or error\$1 near3 estimat\$4 or frequenc\$3 near2 error\$1 or loopfilter\$3 or loop adj1 filter\$3 or feedback near3 loop\$1 or feedback near3 filter\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:52	
26	BRS	L33	1	("6498805") .URPN.	USPAT	2005/08/1 1 16:06	
27	BRS	L34	0	("6795512") .URPN.	USPAT	2005/08/1 1 16:07	
28	BRS	L35	6	("5724390" "5729558" "6023783" "6236687" "6456671" "6498805") .PN.	US- PGPUB ; USPAT ; USOCR	2005/08/1 1 16:08	
29	BRS	L36	2	("6236687") .URPN.	USPAT	2005/08/1 1 16:10	

	Error Definition	Err ors
25		
26		
27		
28		
29		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
30	BRS	L37	5	("4513429" "5490148" "5497400" "5764102" "6115431") .PN.	US- PGPUB ; USPAT ; USOCR	2005/08/1 1 16:11	
31	BRS	L38	6	("5724390" "5729558" "6023783" "6236687" "6456671" "6498805") .PN.	US- PGPUB ; USPAT ; USOCR	2005/08/1 1 16:12	
32	BRS	L39	4	("5790596" "5809083" "5875215" "6222498") .PN.	US- PGPUB ; USPAT ; USOCR	2005/08/1 1 16:12	
33	BRS	L40	4	("5790596" "5809083" "5875215" "6222498") .PN.	US- PGPUB ; USPAT ; USOCR	2005/08/1 1 16:15	
34	BRS	L41	1	"6608858" .pn.	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:23	
35	BRS	L42	1	41 and soft\$4	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:23	

	Error Definition	Err ors
30		
31		
32		
33		
34		
35		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
36	BRS	L43	19	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same (pilot\$1 or nonpilot\$1) same (frequenc\$3 near2 track\$4 or frequenc\$3 near3 recover\$4 or frequenc\$3 near3 reproduc\$6 or carrier near3 track\$3 or carrier\$1 near3 recover\$4 or phase near2 track\$4 or carrier\$1 near3 reproduc\$6 or timing near3 recover\$4 or frequenc\$3 near2 discriminat\$4 or error\$1 near3 estimat\$4 or frequenc\$3 near2 error\$1 or loopfilter\$3 or loop adj1 filter\$3 or feedback near3 loop\$1 or feedback near3 filter\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:26	

	Error Definition	Err ors
36		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
37	BRS	L44	496	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same (frequenc\$3 near2 track\$4 or frequenc\$3 near3 recover\$4 or frequenc\$3 near3 reproduc\$6 or carrier near3 track\$3 or carrier\$1 near3 recover\$4 or phase near2 track\$4 or carrier\$1 near3 reproduc\$6 or timing near3 recover\$4 or frequenc\$3 near2 discriminat\$4 or error\$1 near3 estimat\$4 or frequenc\$3 near2 error\$1 or loopfilter\$3 or loop adj1 filter\$3 or feedback near3 loop\$1 or feedback near3 filter\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:27	
38	BRS	L45	1	44 and (pilot\$1) and (non adj1 pilot\$1)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:27	
39	BRS	L46	1	45 and ("35" or symbol\$1 near2 generat\$4)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:28	

	Error Definition	Errors
37		
38		
39		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
40	BRS	L47	88	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same (frequency near2 error\$1 or error near2 calculat\$4 or error\$1 near3 difference\$1 or frequency near3 measur\$6 or frequenc\$3 near3 calculat\$4 or frequenc\$3 near2 estimat\$4 or frequenc\$3 near3 determin\$4 or frequenc\$3 near3 remov\$6 or frequenc\$3 near3 discriminat\$4) same (carrier near3 track\$3 or carrier\$1 near3 recover\$4 or phase near2 track\$4 or carrier\$1 near3 reproduc\$6 or timing near3 recover\$4 or frequenc\$3 near2 discriminat\$4 or error\$1 near3 estimat\$4 or frequenc\$3 near2 error\$1 or loopfilter\$3 or loop adj1 filter\$3 or feedback near3 loop\$1 or feedback near3 filter\$3 or track\$4 near3 loop\$1 or carrier\$1 near3 loop\$1 or loop\$1 near3 recover\$4)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:16	

41	BRS	L48	11	47 and (pilot\$3 or nonpilot\$1)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:38	
42	BRS	L49	77	47 not 48	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:39	

	Error Definition	Err ors
40		
41		
42		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
43	BRS	L50	77	49 not 31	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:51	
44	BRS	L51	3	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same (pilot\$1 or nonpilot\$1) same (non adj1 pilot\$1 or nonpilot\$1)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:58	
45	BRS	L52	3	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same (non adj1 pilot\$1 or nonpilot\$1)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:55	
46	BRS	L53	12	(polit\$1) same (non adj1 pilot\$1 or nonpilot\$1 or data adj1 signal\$1 or data adj2 symbol\$1 or auxiliar\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 16:57	
47	BRS	L54	5664	(pilot\$1) same (non adj1 pilot\$1 or nonpilot\$1 or data adj1 signal\$1 or data adj2 symbol\$1 or auxiliar\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:10	

	Error Definition	Err ors
43		
44		
45		
46		
47		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
48	BRS	L55	37	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same 54	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:11	
49	BRS	L56	4590	(pilot\$1) with (non adj2 pilot\$1 or nonpilot\$1 or data adj1 signal\$1 or data adj2 symbol\$1 or auxiliar\$3 or data adj2 stream\$1 or data adj2 sequenc\$3)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:11	
50	BRS	L57	26	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same 56	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:14	
51	BRS	L58	4	57 not 55	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:13	
52	BRS	L59	2133	pilot\$1 adj2 data	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:13	
53	BRS	L60	4047	pilot\$1 adj4 data	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:13	

	Error Definition	Err ors
48		
49		
50		
51		
52		
53		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
54	BRS	L61	74	(soft\$3 near3 decod\$3 or soft near3 detect\$4 or soft\$3 near3 decision\$1 or soft\$3 near3 demodulat\$4 or soft\$3 near3 process\$4 or soft\$4 near3 calculat\$4) same 60	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:14	
55	BRS	L62	57	61 not 55	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:14	
56	BRS	L63	59	61 not 57	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:15	
57	BRS	L64	55	62 not 57	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:15	
58	BRS	L65	55	64 not 50	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:15	

	Error Definition	Err ors
54		
55		
56		
57		
58		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
59	BRS	L66	1	65 same (frequency near2 error\$1 or error near2 calculat\$4 or error\$1 near3 difference\$1 or frequency near3 measur\$6 or frequenc\$3 near3 calculat\$4 or frequenc\$3 near2 estimat\$4 or frequenc\$3 near3 determin\$4 or frequenc\$3 near3 remov\$6 or frequenc\$3 near3 discriminat\$4) same (carrier near3 track\$3 or carrier\$1 near3 recover\$4 or phase near2 track\$4 or carrier\$1 near3 reproduc\$6 or timing near3 recover\$4 or frequenc\$3 near2 discriminat\$4 or error\$1 near3 estimat\$4 or frequenc\$3 near2 error\$1 or loopfilter\$3 or loop adj1 filter\$3 or feedback near3 loop\$1 or feedback near3 filter\$3 or track\$4 near3 loop\$1 or carrier\$1 near3 loop\$1 or loop\$1 near3 recover\$4)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:17	

	Error Definition	Err ors
59		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
60	BRS	L67	3	65 and (frequency near2 error\$1 or error near2 calculat\$4 or error\$1 near3 difference\$1 or frequency near3 measur\$6 or frequenc\$3 near3 calculat\$4 or frequenc\$3 near2 estimat\$4 or frequenc\$3 near3 determin\$4 or frequenc\$3 near3 remov\$6 or frequenc\$3 near3 discriminat\$4) same (carrier near3 track\$3 or carrier\$1 near3 recover\$4 or phase near2 track\$4 or carrier\$1 near3 reproduc\$6 or timing near3 recover\$4 or frequenc\$3 near2 discriminat\$4 or error\$1 near3 estimat\$4 or frequenc\$3 near2 error\$1 or loopfilter\$3 or loop adj1 filter\$3 or feedback near3 loop\$1 or feedback near3 filter\$3 or track\$4 near3 loop\$1 or carrier\$1 near3 loop\$1 or loop\$1 near3 recover\$4)	US- PGPUB ; USPAT ; EPO; JPO	2005/08/1 1 17:17	

	Error Definition	Err ors
60		